IN THE CLAIMS

Claims 1-13. Canceled.

- 14. (Currently amended) A process for the manufacture of a polyurethane foam or polyurea foam by conversion of:
 - (A) compounds containing at least two isocyanate groups with
 - (B) compounds containing at least two reactive hydrogen atoms,
 - (C) in the presence of one or more catalysts, wherein at least one of said catalysts is an amine oxide and/or comprises at least one amine-N-oxide group,
 - wherein during the course of said conversion a reaction temperature of 50° C is exceeded to an extent that at least one residue attached to the N-atom of said amine-N-oxide group is eliminated by eope Cope elimination, and
 - wherein said amine oxide has three residues each of which comprise no more than 8 carbon atoms and wherein said residues optionally comprise at least one heteroatom selected from the group consisting of nitrogen, oxygen, sulfur and combinations there of, and
 - wherein said amine oxide has at least one residue having a β-hydrogen atom relative to said N-atom of said amine-N-oxide group.
- 15. (Currently amended) The process according to claim 14, wherein said amine oxide has the following structure (I)

$$R^{2} - N - O$$

$$R^{3}$$

in which R^1 , R^2 and R^3 independently of each other are linear or branched hydrocarbon residues with 1 to 8 carbon atoms and/or or one, two or all of said R^1 , R^2 and R^3 are part of cyclic structures wherein R^1 , R^2 and R^3 optionally and/or contain heteroatoms selected from the group consisting of nitrogen, oxygen and/or or sulfur.

16. (Previously amended) The process according to claim 15, wherein at least one of said R¹, R² and R³, independently of each other, is ethyl, n-propyl, isopropyl, n-butyl, isobutyl or tertiary butyl.

- 17. Canceled.
- 18. (Previously amended) The process according to claim 14, wherein said amine oxide is selected from the group consisting of triethylamine-N-oxide, N-ethylmorpholine-N-oxide, N-methylmorpholine-N-oxide, diethyloctylamine-N-oxide, dimethylcyclohexylamine-N-oxide, ethyldicyclohexylamine-N-oxide, N,N,N',N'-tetra-ethyl-bisaminoethyl ether-di-N,N'-oxide, diethylcyclohexylamine-N-oxide and diethylpiperzine-N-oxide.
- 19. (Previously amended) The process according to claim 14, wherein said amine oxide is used at 0.01 to 5 % by weight based on the weight of compounds with reactive hydrogen atoms used.
- 20. (Previously presented) The process according to claim 14, wherein said compound containing at least two reactive hydrogen atoms comprises a polyether with at least two free hydroxyl groups.
- 21. (Previously presented) The process according to claim 14, further comprising employing metal salts of organic compounds as catalysts.
- 22. (Previously amended) The process according to claim 14, wherein beside said amine-oxide no tertiary amine catalysts are used.
- 23. (Previously amended) The process according to claim 14, wherein besides said amine-oxide no further polyurethane/polyurea catalysts are used.
- 24. Canceled
- 25. (Previously amended) The process according to claim 14, wherein during the course of said conversion a reaction temperature of 130°C is exceeded.
- 26. (Currently amended) The process according to claim 14, further comprising adding one or more surfactants as foam stabilizers to said conversion mixture.
- 27. (Previously presented) The process according to claim 26, wherein the foam stabilizer is a silicone.
- 28. (Currently amended) A process for manufacturing a polyurethane polymer foam or a polyurea polymer foam comprising reacting
 - (A) compounds containing at least two isocyanate groups with
 - (B) compounds containing at least two reactive hydrogen atoms,

- (C) in the presence of one or more catalysts,
 - wherein at least one of the catalysts is an amine-oxide and/or comprises at least one amine-N-oxide group,
 - wherein during the course of said eonversion reaction a reaction temperature of 50°C is exceeded to an extent that at least one residue attached to the N-atom of the amine-N-oxide group is eliminated by eope Cope elimination, and
 - wherein said amine-oxide has at least one residue having a β-hydrogen atom relative to said N-atom of said amine-N-oxide group.
- 29. (Currently amended) The process according to claim 28, wherein said reaction temperature during the course of said eonversion reaction exceeds a temperature of 130°C.
- 30. (Currently amended) The process according to Claim 28, wherein said amine-oxide has three substituents residues that each comprise no more than 8 carbon atoms and wherein said residues optionally comprise at least one heteroatom selected from the group consisting of nitrogen, oxygen, sulfur and combinations thereof.
- 31. (Previously presented) The process according to Claim 28 further comprising employing metal salts of organic compounds as a catalyst.
- 32. (Previously amended) The process according to Claim 31, wherein said metal salt of organic compound comprises a tin salt of an organic compound.
- 33. (Previously amended) The process according to Claim 32 wherein said tin salt of an organic compound comprises dibutyl tin mercaptide.
- 34. (Previously amended) The process according to Claim 14, wherein said compounds containing at least two reactive hydrogen atoms comprise one or more compounds selected from the group consisting: polyols, polyether polyols, polyester polyols, polyether polyols, polyether polyols, polyether polyamines, polyacetals containing hydroxyl groups, aliphatic polycarbonates containing hydroxylgroups and water.
- 35. (Previously amended) The process according to Claim 21, wherein said metal salt of organic compounds comprises a tin salt of an organic compound.
- 36. (Previously amended) The process according to Claim 35 wherein said tin salt of an organic compound comprises dibutyl tin mercaptide.